



Figure 14

ELECTROMAGNETIC WAVE SHIELDING RATE TEST OF MG NET (summary)

Test working day: December 10, 1997

Measurement person: America Pennsylvania state-run college
Electron sound material & apparatus engineering research center
Prof. Vijay K. Varadan
(A Doctor of Engineering: a specialist of electrical machinery, machine,
and natural science)

The measurement facilities: HVS Technologies, Inc.
(An electron sound engineering research center belonging
electromagnetic wave absorption shielding material and test
equipment specialized agencies)

A use electromagnetic wave shielding material: MG net electromagnetic wave screening material

Measurement instrument: HVS Free Space Microwave Measurement System

Instrumentation: MG net electromagnetic wave absorption factor and also permeation
attenuation rate
Frequency 0.045 GHz ~ 1.4 GHz
Frequency 7.75 GHz ~ 13.0 GHz

By using the method: HVS Free Space Microwave Measurement System electromagnetic wave
absorption factor and permeation attenuation rate of MG net a
measurement

Test as a result of: Frequency 0.045 GHz ~ 1.4 GHz at the time of
Around 1% of absorption factor
Blocking rate 97% ~ 99% or more
Frequency 7.75 GHz ~ 13.0 GHz at the time of
Around 1% of absorption factor
Blocking rate 90% ~ 99% or more

The comment of the Dr. Varadan: this material is an ideal material as an electromagnetic wave
blocking material.
It is when send to a market and use to many electrical
machinery and apparatus including a mobile phone now.